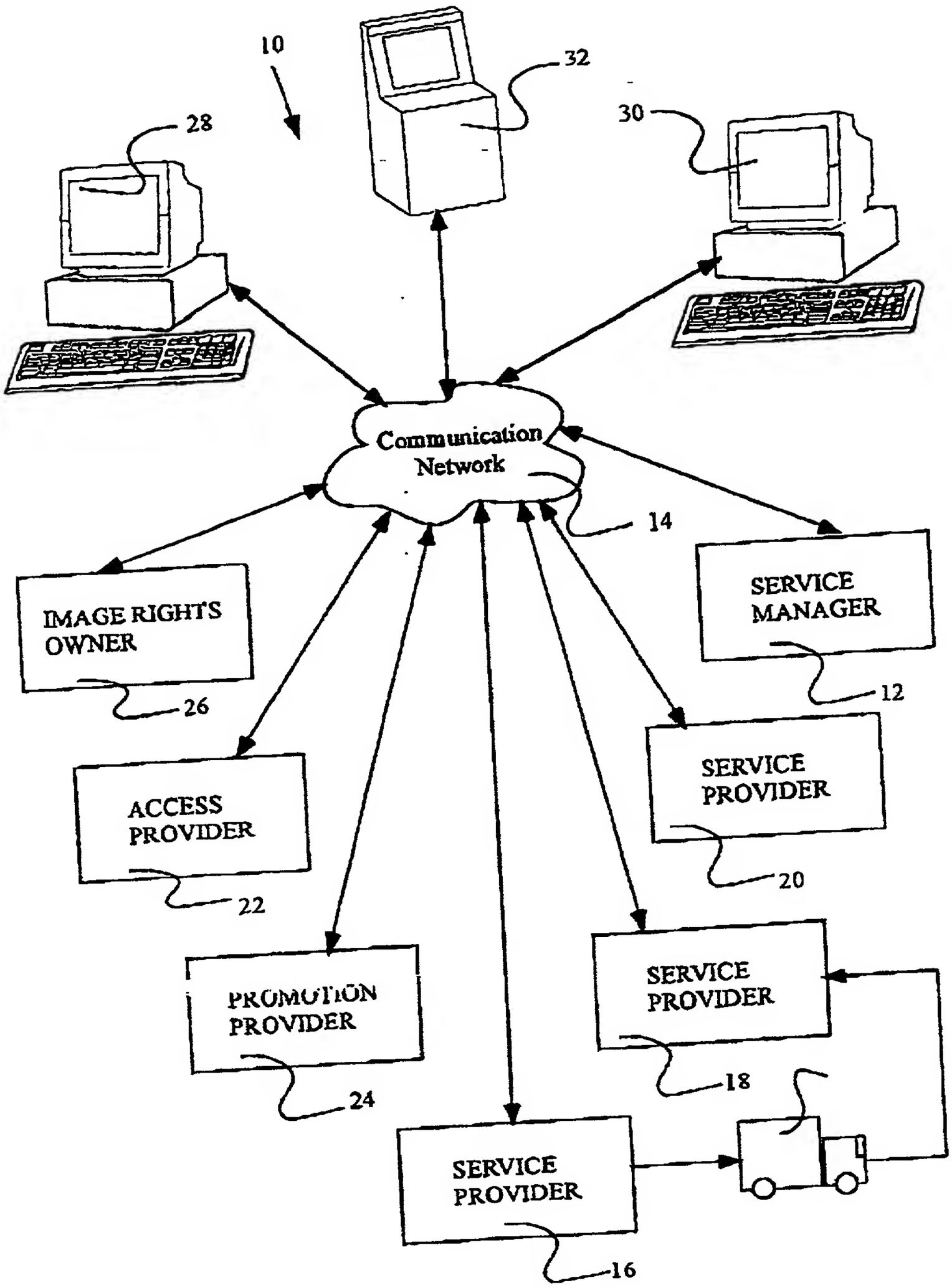

10
32
28
30
Communication Network
14
IMAGE RIGHTS OWNER
26
SERVICE MANAGER
12
ACCESS PROVIDER
22
SERVICE PROVIDER
20
PROMOTION PROVIDER
24
SERVICE PROVIDER
18
SERVICE PROVIDER
16

FIG. 1

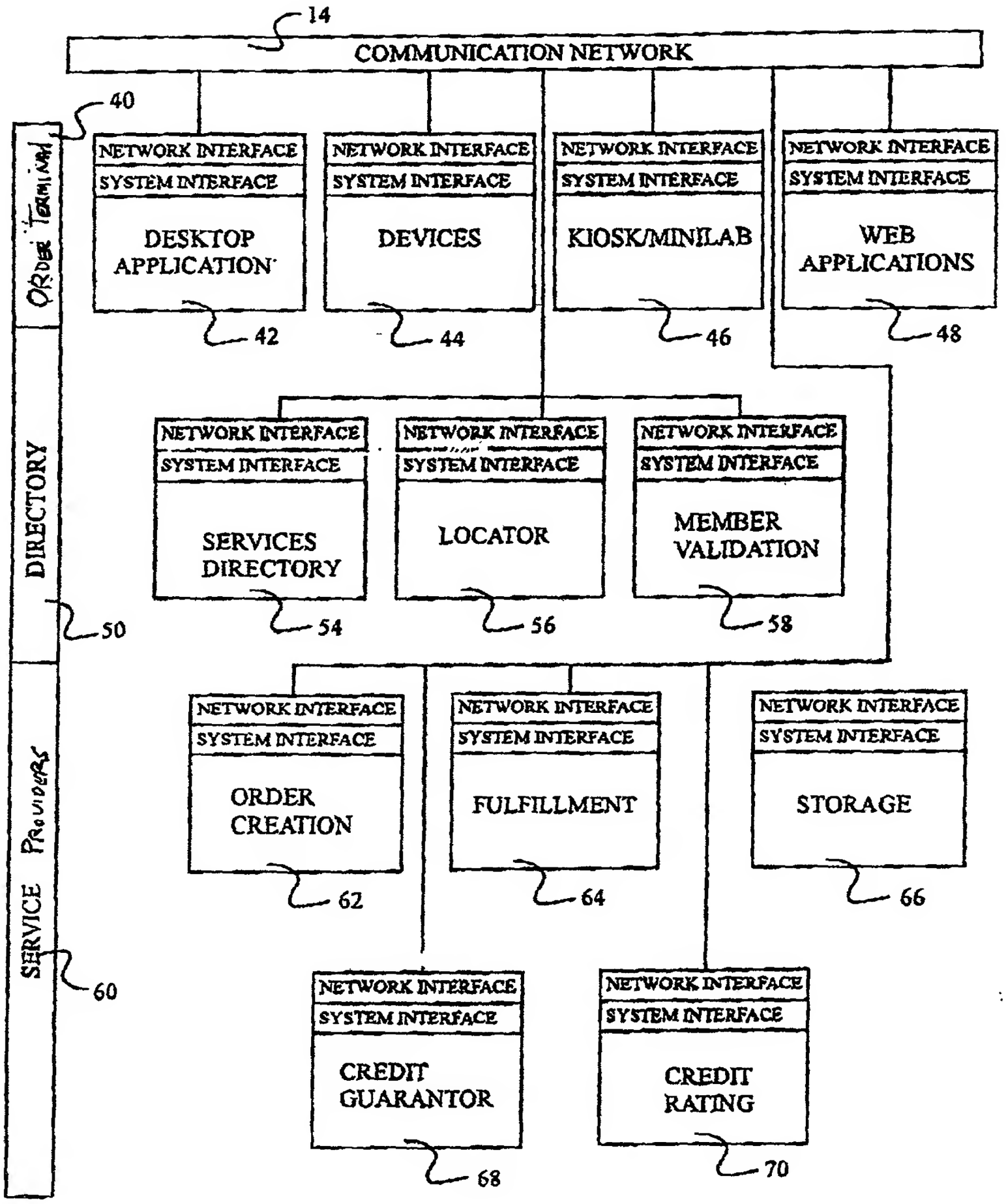

14
COMMUNICATION NETWORK
40
ORDER TERMINAL
DIRECTORY
SERVICE PROVIDERS
50
60
NETWORK INTERFACE
SYSTEM INTERFACE
DESKTOP APPLICATION
42
NETWORK INTERFACE
SYSTEM INTERFACE
DEVICES
44
NETWORK INTERFACE
SYSTEM INTERFACE
KIOSK/MINILAB
46
NETWORK INTERFACE
SYSTEM INTERFACE
WEB APPLICATIONS
48
NETWORK INTERFACE
SYSTEM INTERFACE
SERVICES DIRECTORY
54
NETWORK INTERFACE
SYSTEM INTERFACE
LOCATOR
56
NETWORK INTERFACE
SYSTEM INTERFACE
MEMBER VALIDATION
58
NETWORK INTERFACE
SYSTEM INTERFACE
ORDER CREATION
62
NETWORK INTERFACE
SYSTEM INTERFACE
FULFILLMENT
64
NETWORK INTERFACE
SYSTEM INTERFACE
STORAGE
66
NETWORK INTERFACE
SYSTEM INTERFACE
CREDIT GUARANTOR
68
NETWORK INTERFACE
SYSTEM INTERFACE
CREDIT RATING
70

FIG. 2

Fig. 3

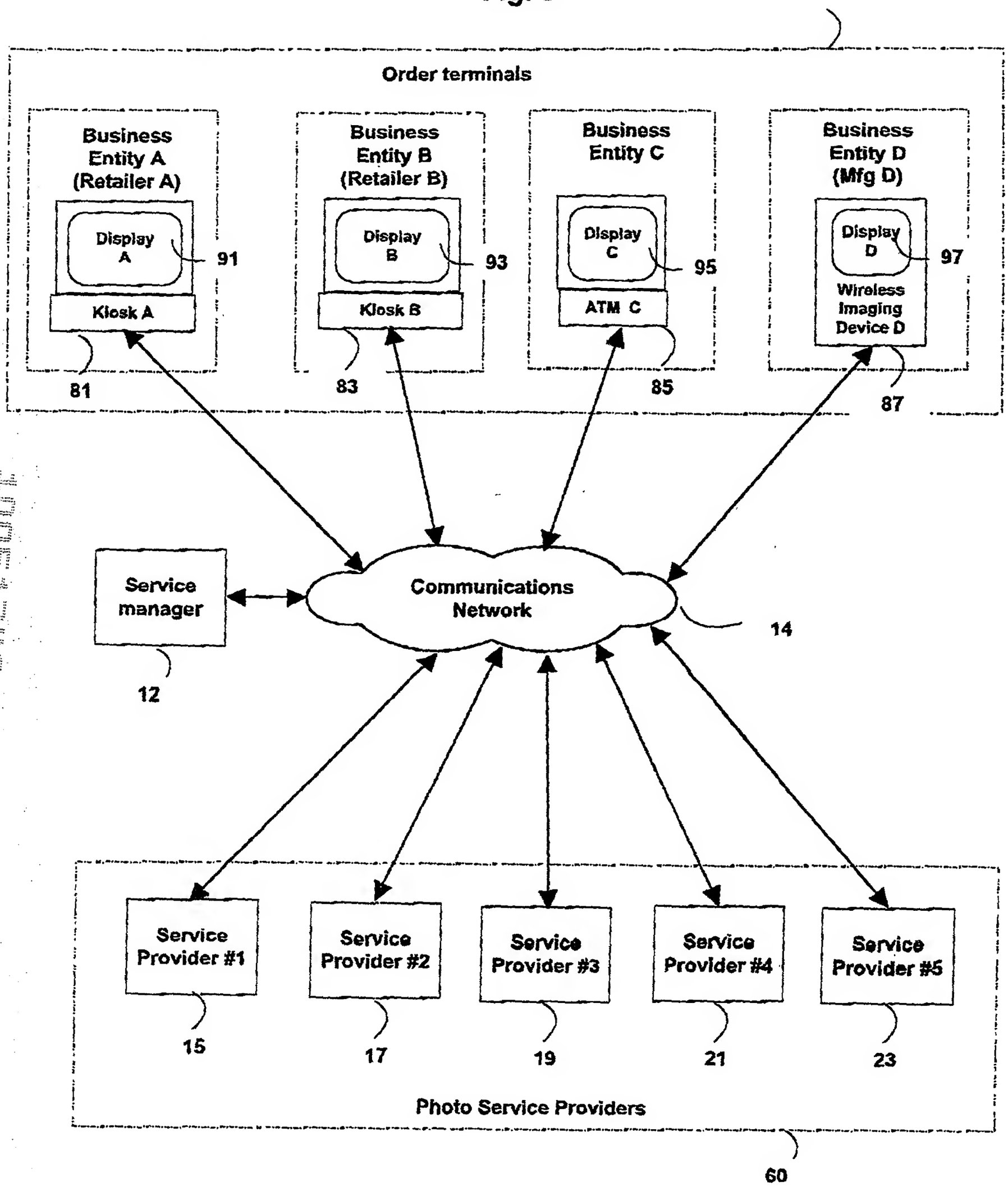

Order terminals
Business Entity A (Retailer A)
Display A
91
Kiosk A
81
Business Entity B (Retailer B)
Display B
93
Kiosk B
83
Business Entity C
Display C
95
ATM C
85
Business Entity D (Mfg D)
Display D
97
Wireless Imaging Device D
87
Service manager
12
Communications Network
14
Service Provider #1
15
Service Provider #2
17
Service Provider #3
19
Service Provider #4
21
Service Provider #5
23
Photo Service Providers
60

Figure 4

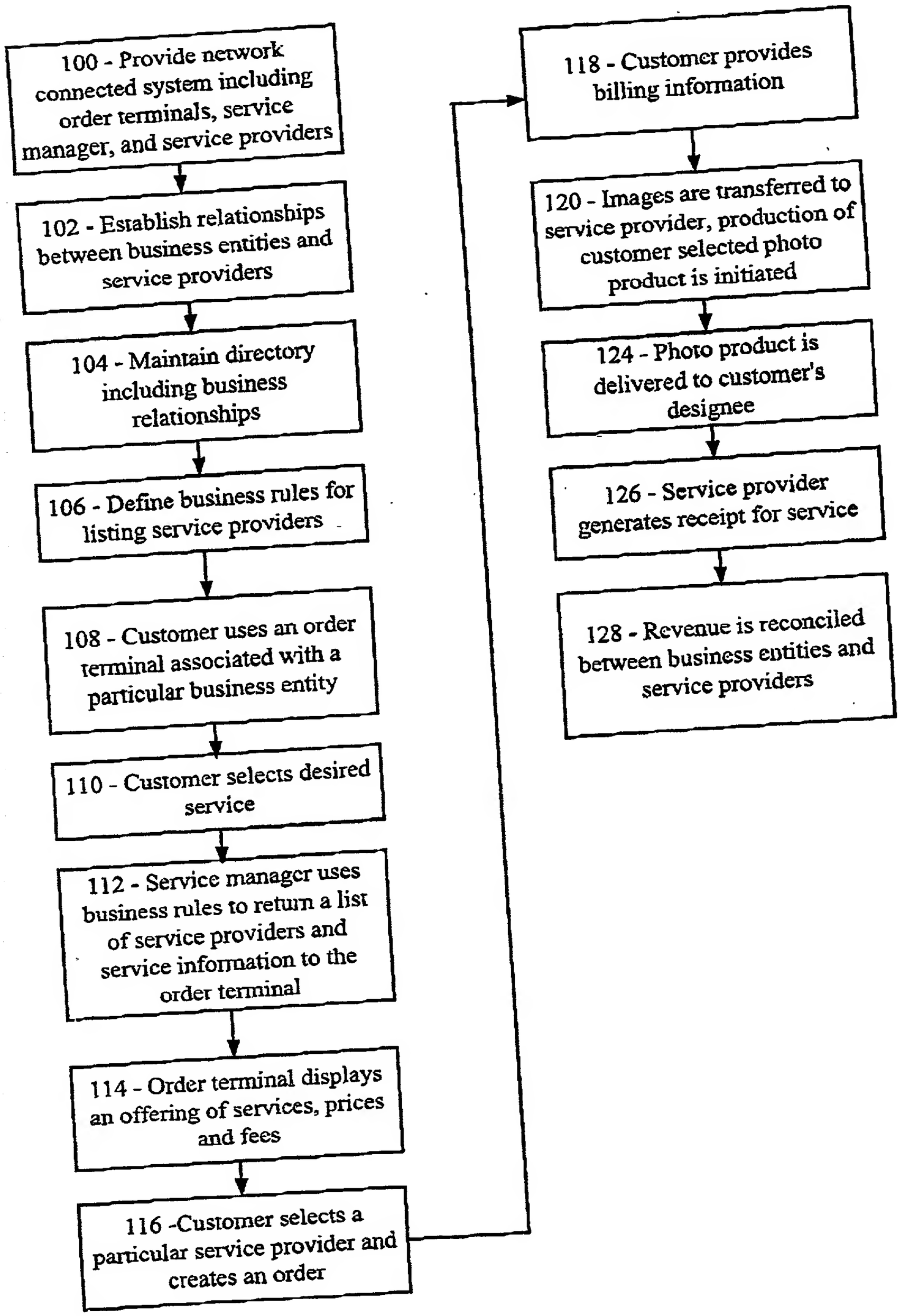

100 - Provide network connected system including order terminals, service manager, and service providers
102 - Establish relationships between business entities and service providers
104 - Maintain directory including business relationships
106 - Define business rules for listing service providers
108 - Customer uses an order terminal associated with a particular business entity
110 - Customer selects desired service
112 - Service manager uses business rules to return a list of service providers and service information to the order terminal
114 - Order terminal displays an offering of services, prices and fees
116 -Customer selects a particular service provider and creates an order
118 - Customer provides billing information
120 - Images are transferred to service provider, production of customer selected photo product is initiated
124 - Photo product is delivered to customer's designee
126 - Service provider generates receipt for service
128 - Revenue is reconciled between business entities and service providers

FIG. 5

Business Relationships

Provider	Name	Service		Entity A	Entity B	Entity C	Entity D
#1	RetailerA.com	Printing		D	X	N	F
#2	RetailerB.com	Printing		X	D	N	X
#3	FOTO.com	Printing		N	N	F	D
#4	FRAMES_R_US	Framed prints		F	N	N	N
#5	Pictures.com	Framed prints		N	F	N	N

Relationships:
D = domestic
F = Friendly
N = Neutral
X = Hostile

Figure 6A

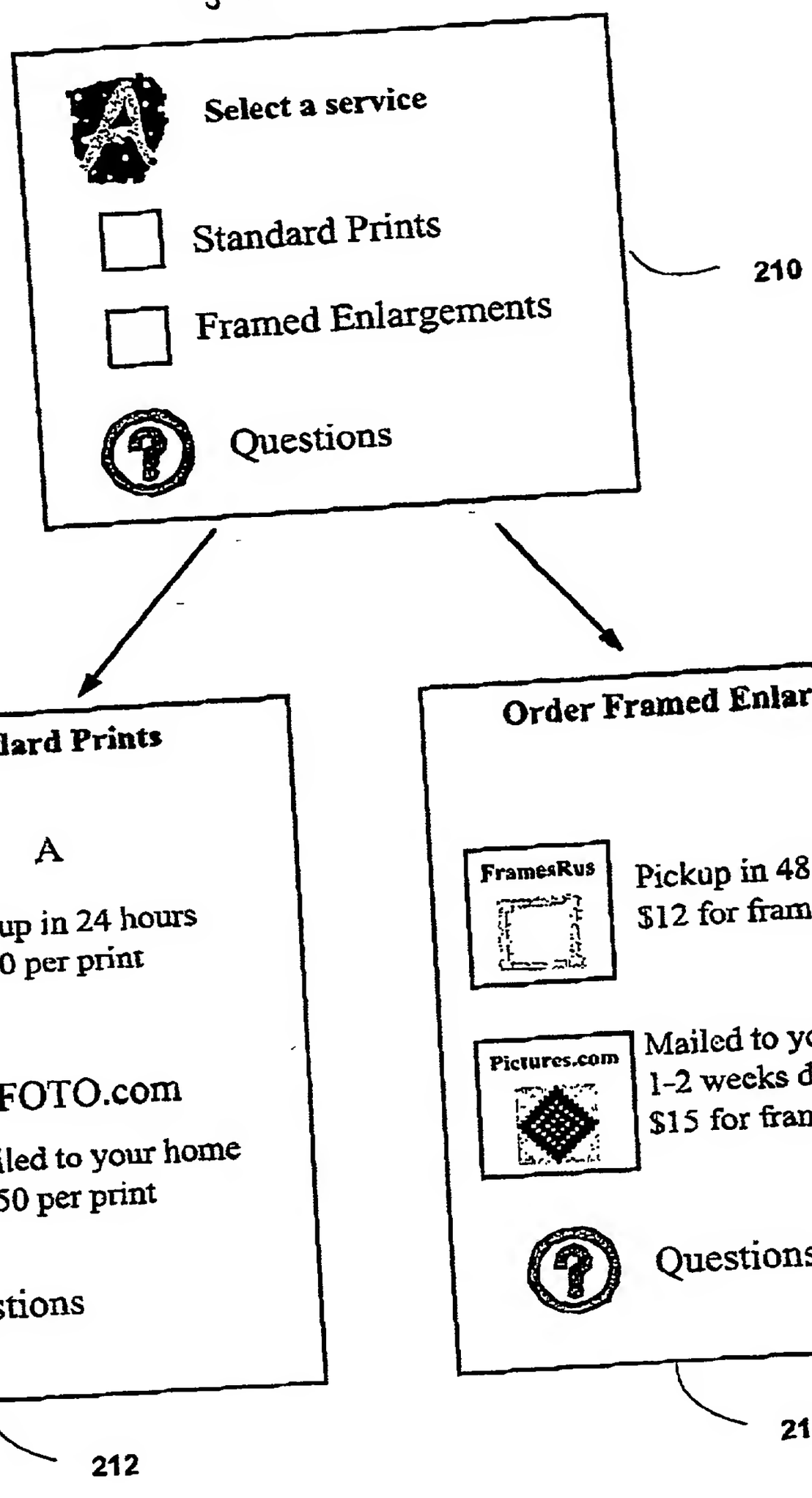

Select a service
Standard Prints
Framed Enlargements
Questions
210
Order Standard Prints
A
A.com
Pickup in 24 hours
$0.30 per print
FOTO.com
FOTO.com
Mailed to your home
$0.50 per print
Questions
212
Order Framed Enlargements
FramesRus
Pickup in 48 hours
$12 for framed 5 x 7
Pictures.com
Mailed to your home
1-2 weeks delivery
$15 for frame 5 x 7
Questions
214

Fig 6B

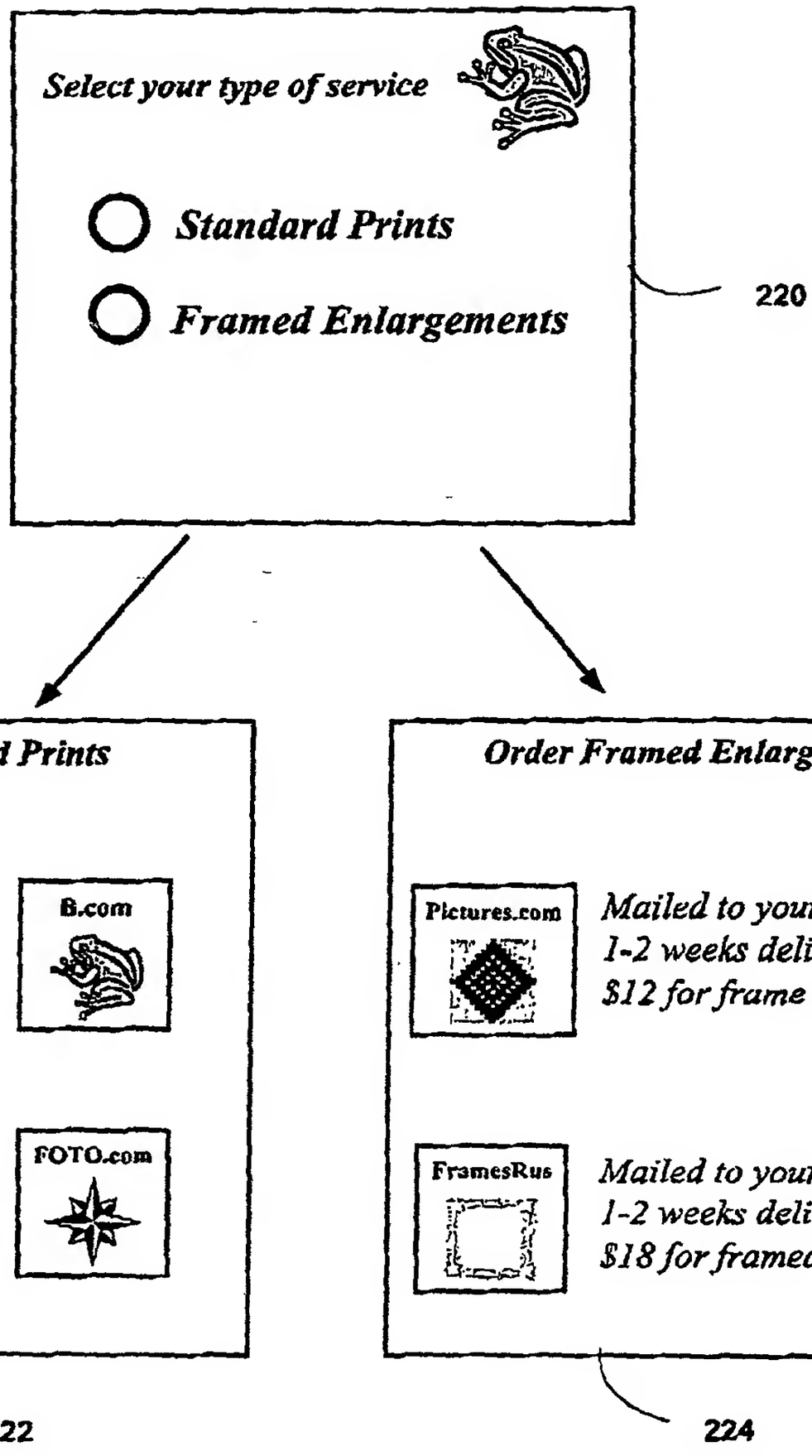

Select your type of service
Standard Prints
Framed Enlargements
220
Order Standard Prints
B printing
Pickup in 24 hours
$0.35 per print
B.com
FOTO.com
Mailed to your home
$0.50 per print
FOTO.com
222
Order Framed Enlargements
Pictures.com
Mailed to your home
1-2 weeks delivery
$12 for frame 5 x 7
FramesRus
Mailed to your home
1-2 weeks delivery
$18 for framed 5 x 7
224

Fig 6 C

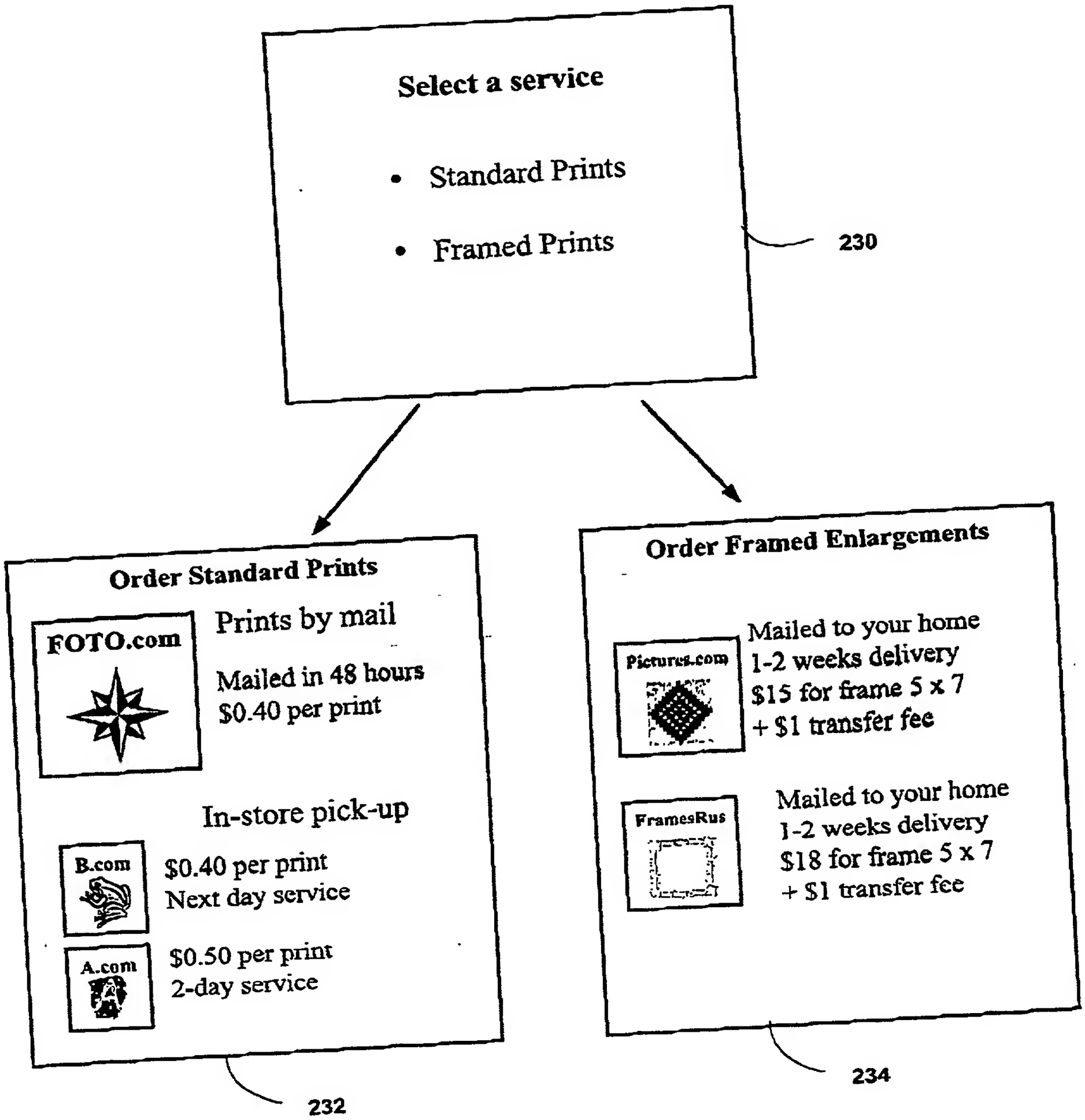

Select a service
• Standard Prints
• Framed Prints
230
Order Standard Prints
FOTO.com
Prints by mail
Mailed in 48 hours
$0.40 per print
In-store pick-up
B.com
$0.40 per print
Next day service
A.com
$0.50 per print
2-day service
232
Order Framed Enlargements
Pictures.com
Mailed to your home
1-2 weeks delivery
$15 for frame 5 x 7
+ $1 transfer fee
FramesRus
Mailed to your home
1-2 weeks delivery
$18 for frame 5 x 7
+ $1 transfer fee
234

Figure 6D

Order Prints
Foto.com Prints by mail
Mailed in 48 hours
$0.30 per print
Retailer A In-store pick-up
$0.40 per print
2-day service
242

Fig. 7

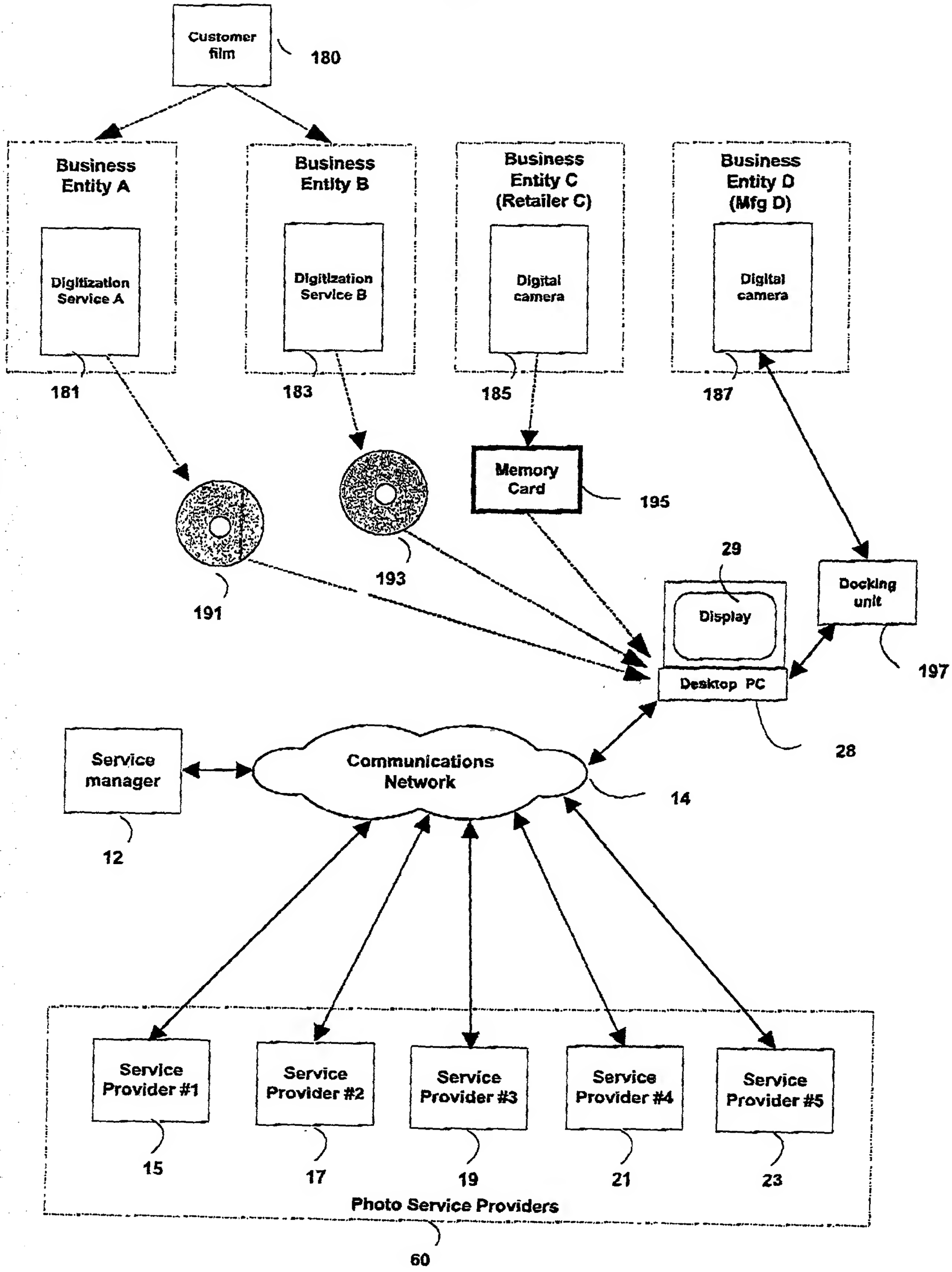

Customer film
180
Business Entity A
Digitization Service A
Business Entity B
Digitization Service B
Business Entity C (Retailer C)
Digital camera
Business Entity D (Mfg D)
Digital camera
181
183
185
187
Memory Card
195
191
193
29
Display
Docking unit
197
Desktop PC
28
Service manager
12
Communications Network
14
Service Provider #1
Service Provider #2
Service Provider #3
Service Provider #4
Service Provider #5
15
17
19
21
23
Photo Service Providers
60

Figure 8

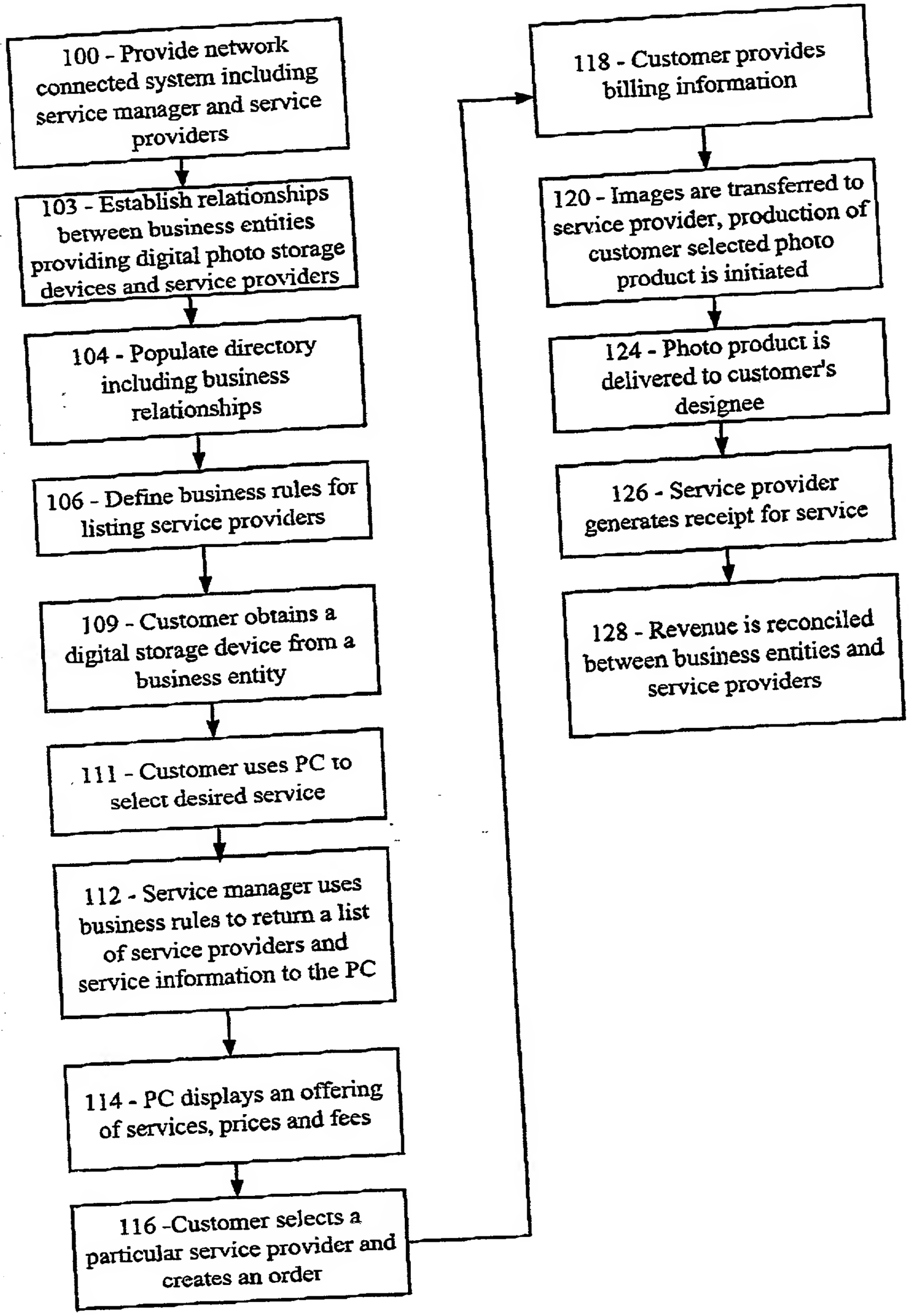

100 - Provide network connected system including service manager and service providers
103 - Establish relationships between business entities providing digital photo storage devices and service providers
104 - Populate directory including business relationships
106 - Define business rules for listing service providers
109 - Customer obtains a digital storage device from a business entity
111 - Customer uses PC to select desired service
112 - Service manager uses business rules to return a list of service providers and service information to the PC
114 - PC displays an offering of services, prices and fees
116 -Customer selects a particular service provider and creates an order
118 - Customer provides billing information
120 - Images are transferred to service provider, production of customer selected photo product is initiated
124 - Photo product is delivered to customer's designee
126 - Service provider generates receipt for service
128 - Revenue is reconciled between business entities and service providers

Fig. 9

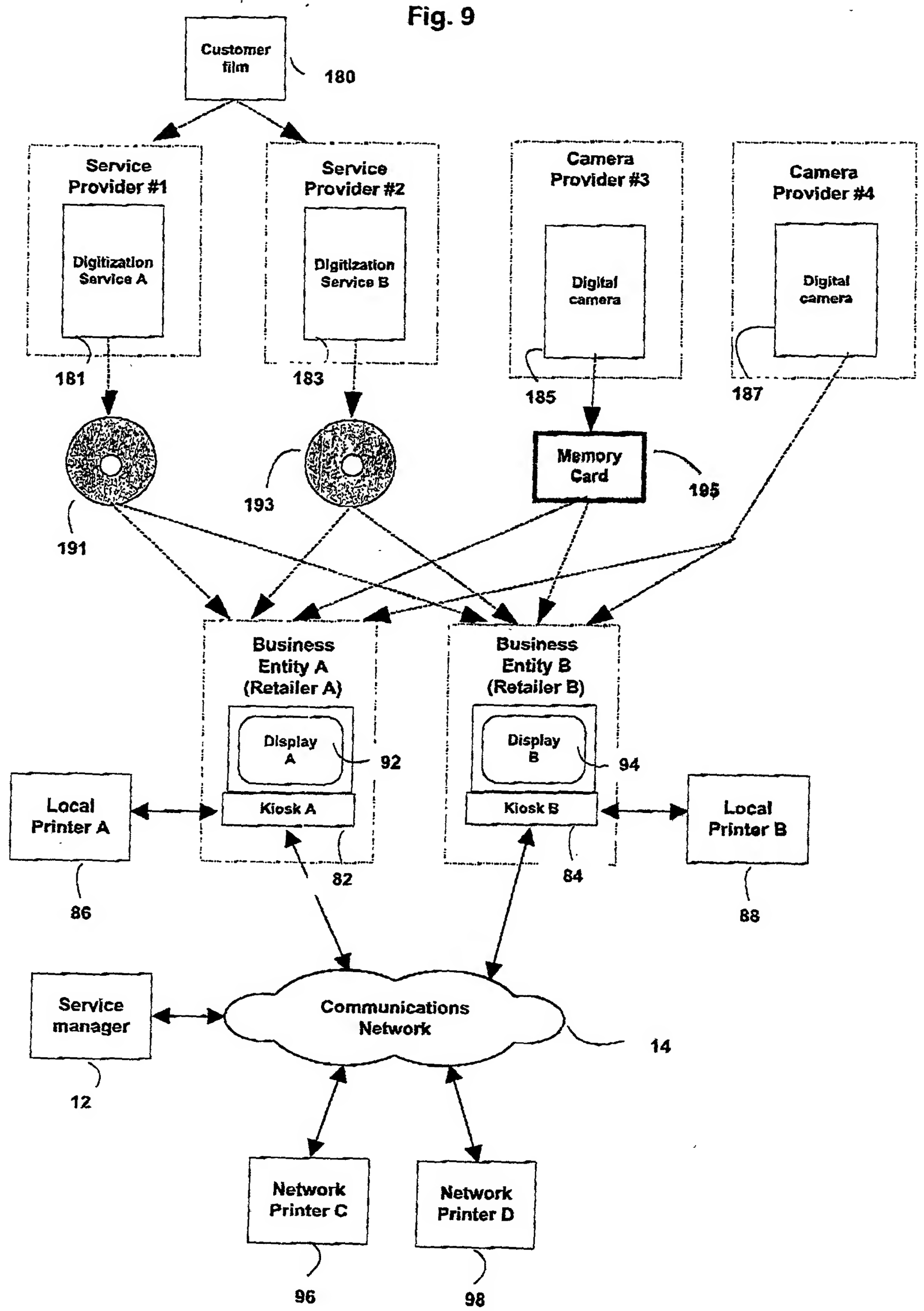
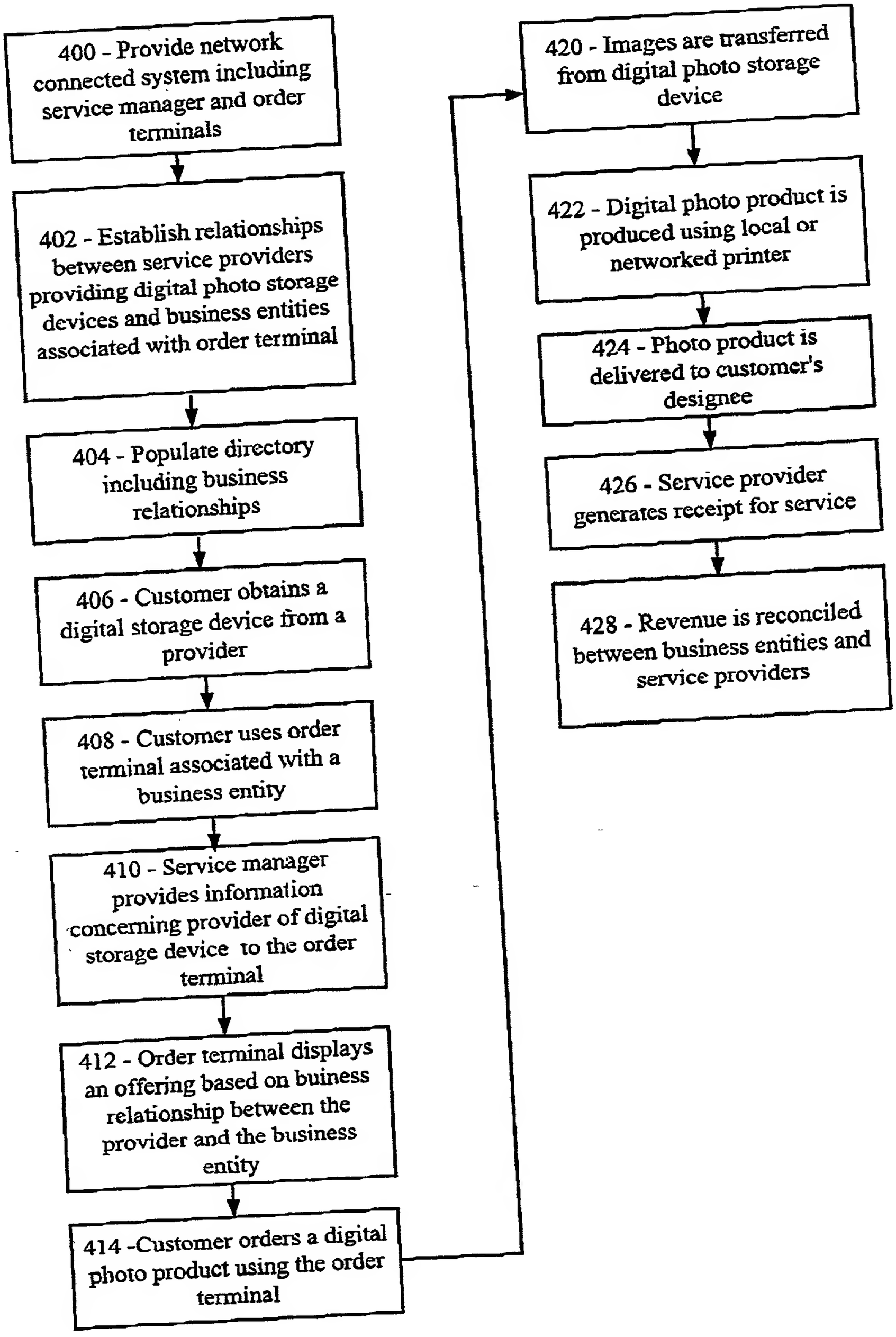

Customer film
180
Service Provider #1
Digitization Service A
181
Service Provider #2
Digitization Service B
183
Camera Provider #3
Digital camera
185
Camera Provider #4
Digital camera
187
Memory Card
189
191
193
Business Entity A (Retailer A)
Display A
92
Kiosk A
82
Business Entity B (Retailer B)
Display B
94
Kiosk B
84
Local Printer A
86
Local Printer B
88
Service manager
12
Communications Network
14
Network Printer C
96
Network Printer D
98

Figure 10


400 - Provide network connected system including service manager and order terminals
402 - Establish relationships between service providers providing digital photo storage devices and business entities associated with order terminal
404 - Populate directory including business relationships
406 - Customer obtains a digital storage device from a provider
408 - Customer uses order terminal associated with a business entity
410 - Service manager provides information concerning provider of digital storage device to the order terminal
412 - Order terminal displays an offering based on buiness relationship between the provider and the business entity
414 -Customer orders a digital photo product using the order terminal
420 - Images are transferred from digital photo storage device
422 - Digital photo product is produced using local or networked printer
424 - Photo product is delivered to customer's designee
426 - Service provider generates receipt for service
428 - Revenue is reconciled between business entities and service providers